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## B.Sc.IT: Semester - V

Advanced Java

November - 2017 75:25 Pattern

MUMBAI UNIVERSITY

## **ADVANCED JAVA**

B.Sc.IT

QUESTION PAPER

Time: 2 ½ Hours

(NOVEMBER – 2017 | 75:25 PATTERN)

(SEMESTER – V)

Total Marks: 75

(2 (3 (4 (5 (6	All Question are Compulsory.  Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.  Answer To The Same Question Must Be Written Together.  Number To The Right Indicates Marks.  Draw Neat Labeled Diagrams Wherever Necessary.  Use of Non – Programmable Calculator is allowed.		
Q.1	ATTEMPT ANY TWO QUESTIONS: (10 MARKS)	<i>,</i> _,	
(A)	Explain the se of Adapter Class with suitable example.	(5)	
(B)	Explain Delegation Event Model. What are two steps in using the Java Delegation Event Model? Explain the various Layout managers available in AWT.	(5)	
(C) (D)	Write AWT based Java program that will read a string from user and display the length of the string.	(5) (5)	
(D)	write AWT based Java program that will read a string from user and display the length of the string.	(3)	
Q.2	ATTEMPT ANY TWO QUESTIONS: (10 MARKS)		
(A)	Write a Java program using swing components that displays table containing student information	(5)	
` ,	(Name, Address, 10 <sup>th</sup> %, 12 <sup>th</sup> %, Emailed, Contact No.).		
(B)	What is use of JColorChooser? Write down the constructors and methods of the same.	(5)	
(C)	Distinguish between AWT and JFC (Swing).	(5)	
(D)	Explain Root Pane, Glass Pane, Layered Pane, Content Pane and Desktop Pane.	(5)	
Q.3	ATTEMPT ANY TWO QUESTIONS: (10 MARKS)		
(A)		(5)	
(A) (B)			
(C)	Explain the ServletRequest Interface of Servlet API.	(5) (5)	
(D)	Write a servlet program to display the factorial of a given number.	(5)	
Q.4	ATTEMPT ANY TWO QUESTIONS: (10 MARKS)		
(A)	List and explain the Directive Tags of JSP.	(5) (5)	
(B)	Explain JDBC Architecture.		
(C)			
	(i) DriverManager		
	(ii) ResultSet		
	(iii) Statement (iv) Connection		
	(v) PreparedStatement		
(D)	What are the advantages and disadvantages of Java Server Pages?	(5)	
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Q.5	ATTEMPT ANY TWO QUESTIONS: (10 MARKS)		
(A)	Explain Model-View-Controller Architecture.		
(B)	List various Phases of JSF Lifecycle. Explain in short.		
(C)	What is Facelet? Write the features of Facelet.	(5)	
(D)	Explain the benefits of EJB.	(5)	
Q.6	ATTEMPT ANY TWO QUESTIONS: (10 MARKS)		
(A)	Explain Architecture of Hibernate Framework in detail.	(5)	
(A) (B)	What is Value Stack in Struts? State and explain the execution flow of Value Stack.		
(C)	Write a short note on Interceptors in Struts.		
(D)	Explain structure of hibernate.cfg.xml file.	(5) (5)	
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MUMBAI UNIVERSITY QUESTION PAPER		ADVANCED JAVA (NOVEMBER – 2017   75:25 PATTERN)  B.SC.IT (SEMESTER – V	<u>')</u>	
Q.7	ATTEMPT ANY TH	ree Questions: (15 Marks)		
(A)	What is CheckBox	Group? Explain with example.	(5)	
(B)	Write a java program to demonstrate the use of Tabbed Panes.			
(C)	What is the purpose of WEB-INF file? Explain.			
(D)	Write a JDBC program that inserts values in database. [Table Name: Book, Fields: Bookid, Title, Author, Publisher]			
(E) (F)		erent types of Enterprise Beans? Explain.	(5) (5)	

